

Title (en)

COMPOSITE MOTION DETECTION SYSTEM AND METHOD FOR USE THEREOF

Title (de)

ZUSAMMENGESETZTES BEWEGUNGSERFASSUNGSSYSTEM UND VERFAHREN ZUR VERWENDUNG DAVON

Title (fr)

SYSTÈME DE DÉTECTION DE MOUVEMENT COMPOSITE ET SON PROCÉDÉ D'UTILISATION

Publication

**EP 3702807 A4 20210707 (EN)**

Application

**EP 17929902 A 20171025**

Priority

CN 2017107657 W 20171025

Abstract (en)

[origin: US2020211340A1] The present disclosure relates to a dual motion detection system. In certain embodiments, the dual motion detection system includes: at least one passive infrared (PIR) motion detection device, at least one radio frequency doppler (RFD) motion detection device, and a dual motion detection system controller. A power module of the dual motion detection system controller provides electrical power to PIR motion detection device continuously to enable the PIR motion detection device to detect object motion. The power module provides electrical power to the RFD motion detection device only when PIR motion detection device detects object motion during a period of time TW. The RFD motion detection device is used to confirm a positive PIR motion detection by the PIR motion detection device and reduce false motion detection using single motion detection device and reduce electrical power consumption of the dual motion detection system.

IPC 8 full level

**G01S 7/41** (2006.01); **G01S 13/34** (2006.01); **G01S 13/56** (2006.01); **G01S 13/86** (2006.01); **G01S 13/88** (2006.01); **G08B 13/187** (2006.01); **G08B 13/191** (2006.01); **G08B 29/18** (2006.01); **G01S 7/02** (2006.01)

CPC (source: CN EP US)

**G01S 7/415** (2013.01 - EP); **G01S 13/505** (2013.01 - US); **G01S 13/52** (2013.01 - CN US); **G01S 13/56** (2013.01 - EP); **G01S 13/86** (2013.01 - EP); **G01S 13/886** (2013.01 - EP); **G01S 17/50** (2013.01 - CN); **G08B 13/187** (2013.01 - EP); **G08B 13/19** (2013.01 - US); **G08B 13/191** (2013.01 - EP); **G08B 29/183** (2013.01 - EP); **G08B 29/185** (2013.01 - US); **G01S 7/0235** (2021.05 - EP)

Citation (search report)

- [X] WO 2017139215 A1 20170817 - CARRIER CORP [US]
- [I] US 2009303100 A1 20091210 - ZEMANY PAUL D [US]
- [A] US 2013002434 A1 20130103 - CUDDIHY PAUL EDWARD [US], et al
- See also references of WO 2019080004A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 10713911 B1 20200714**; **US 2020211340 A1 20200702**; CN 109313265 A 20190205; CN 109313265 B 20230523; EP 3702807 A1 20200902; EP 3702807 A4 20210707; WO 2019080004 A1 20190502

DOCDB simple family (application)

**US 201715572546 A 20171025**; CN 2017107657 W 20171025; CN 201780029349 A 20171025; EP 17929902 A 20171025